IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Thomas J. CAMPANA, JR. et al # 30/ Sub Appendix
                                               R. Morgan
                                               6/12/95

Serial No.:   07/702,938

Filed: May 20, 1991

For: SYSTEM FOR INTERCONNECTING ELECTRONIC
                 MAIL SYSTEMS BY RF COMMUNICATIONS

Group: 2608

Examiner: G. Oehling

Batch: I63

SUBMISSION OF SUBSTITUTE APPENDIX

Honorable Commissioner of   June 9, 1995
  Patents and Trademarks
Washington, D. C. 20231

Sir:

On June 8th, Examiner Oehling called to inform the undersigned that the printer requires replacement of the Appendix as part of the printing process of the patent to issue.
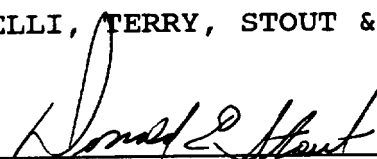
Submitted herewith is a clear substitute identical Appendix for inclusion in the Patent. The Appendix conforms to the previous substitute Appendix substituted earlier in this application, including the deletion of Copyright notices on pages 4 and 10.

If the Examiner, for any reason, finds the Substitute Appendix submitted herewith to be unacceptable, it is requested that he call the undersigned immediately.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus, Deposit Account No. 01-2135 (780.29767X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS

Donald E. Stout
Registration No. 26,422
(703) 312-6600

Attachment

DES:dlh

```
#define ATT_EMAIL_FILE        "TFMOBOX.TMP"
#define DELIMITER             "End of Telefind Network Message\n"
```

```c
#include <string.h>
#include <time.h>
#include <stdio.h>
#include <dos.h>
#include "safari.h"

void main(void)
{
        FILE *infile,*outfile;
        char buffer[81],chr,timestr[6],datestr[9];
        char msg_num[4];
        int msg_num_opt = 0;
        char *ptr;
        int x,day,month,line=1,attmail=0;
        time_t t;

        if ((infile = fopen(ATT_EMAIL_FILE,"rt")) == NULL)
        {
                printf("%s does not exist\n",ATT_EMAIL_FILE);
                exit(0);
        }
        if ((outfile = fopen("tfmobox.$$$","wt")) == NULL)
        {
                printf("Can't open TFMOBOX.$$$\n");
                exit(0);
        }

        for(;;)
        {
        /*      get characters from .tmp file   */
                x = 0;
                do
                {
                        chr = fgetc(infile);
                        if (feof(infile))
                        {
                                fclose(infile);
                                fclose(outfile);
                                exit(0);
                        }
                        buffer[x++] = chr;
                }
        /*              until end of line               */
                while (chr != '\n' && x != 80);

                buffer[x] = '\0';       /*      terminate it     */

                if (line == 1)
                {
                        ptr = strchr(buffer,')');
                        if (ptr-buffer == 2)    /*   was 3rd character  */
                        {
                                sscanf(buffer,"%[^)]",msg_num);
                                msg_num_opt = 1;
                                ptr++;
                        }
                        else
                                ptr = buffer;

                        if (*ptr == ':' && *(ptr+1) == 'D')
                                attmail = 1;
                }

                if (attmail)
                {
                        switch(line)
```

```c
            {
                case 1:
                    /*      datestr = mm/dd, timestr = hh:mm    */

                    sscanf(datestr,"%d/%d",&month,&day);        */
                    /*      get year from pc      */

                    t = time(NULL);
                    fprintf(outfile,"Date: %s",ctime(&t));
                    break;
                case 2:
                    fprintf(outfile,"From: %s",buffer);
                    break;
                case 3:
                    fprintf(outfile,"Subject: %s",buffer);
                    fprintf(outfile,"To: <Name here>\n");
                    if (msg_num_opt)
                            fprintf(outfile,"Message #%s\n",msg_num);
                    break;
                default:
                    fprintf(outfile,"%s",buffer);
                    break;
            }
    }
    else
    {
        if (line == 1)
        {
            t = time(NULL);
            fprintf(outfile,"Date: %s",ctime(&t));
            fprintf(outfile,"From: tfmobox\n");
            fprintf(outfile,"Subject: Telefind Network Message\n");
            fprintf(outfile,"To: <Name here>\n");
            if (msg_num_opt)
            {
                    fprintf(outfile,"Message #%s\n",msg_num);
                    fprintf(outfile,"%s",buffer+3);
            }
            else
                    fprintf(outfile,"%s",buffer);
        }
        else
                fprintf(outfile,"%s",buffer);
    }

    if (strcmp(buffer,DELIMITER) == 0)
    {
        msg_num_opt = line = attmail = 0;
    }

    line ++;
    }
}
```

```c
/*

        Author:                 MICHAEL P. PONSCHKE, SR.
                                03/13/91


        Program:                SAFARI3.C
        Purpose:                TO EXTRACT MESSAGES FROM A TELEFIND PAGER
                                VIA IN RS-232 PORT ON A PC

        Compiler:               TURBO C++ 1.0
        Memory Model:           SMALL
*/

#include <dos.h>
#include <stdio.h>
#include <conio.h>
#include <string.h>
#include <stdlib.h>
#include "safari.h"


/*              CONSTANTS               */


#define DTR_HI                  0x01
#define DTR_LO                  0xfe
#define RTS_HI                  0x02
#define RTS_LO                  0xfd
#define DSR_HI                  0x20
#define RING_IN                 0x40
#define CD_HI                   0x80
#define FIVE_TICK               5
#define FIVE_SEC                96
#define TWELVE_SEC              220
#define LOG_FILE                "LOG"
#define INTRO_STRING            "Please standby, retrieving messages ..."

/*      FUNCTION PROTOTYPES     */

int beep(void);
void busyoff(void);
void busyon(void);
void disoff(void);
void dison(void);
int link(void);
void print_message(void);
int rxdata(void);
int strobe(void);
int strobe_data(void);
unsigned ticks(void);
int timeout(unsigned start, int delay);

/*    VARIABLE DECLARATIONS      */

char pager_buffer[511];
int com_base,control_reg,status_reg,log_flag;
FILE *log_file;

void main(int num_arg, char **args)
{
        unsigned start;
        int restart,x;

        com_base = 0x3f8;       /*    use com 1 unless command line denotes otherwise   */

        /*      get command line arguments      */
```

```c
/*      all command line arguments begin with a single `-' and
        must be seperated by a single space between each other
        and the program name


        -1      Use COM port 1
        -2      Use COM port 2
        -F      Log all activity to a file named LOG          */


        if (num_arg > 1)
        {
                for (x=1; x<num_arg; x++)
                {
                        if (strcmp(args[x],"-1") == 0)
                                com_base = 0x3f8;
                        if (strcmp(args[x],"-2") == 0)
                                com_base = 0x2f8;
                        if (strcmp(args[x],"-F") == 0)
                                log_flag = 1;
                }
        }


        if (log_flag)
                if ((log_file = fopen(LOG_FILE,"at")) == NULL)
                        printf("Unable to open LOG\n");

        control_reg = com_base + 4;
        status_reg = com_base + 6;

        clrscr();

        if (link() == 0)        /*      is pager attached ?       */
                {
                printf("Please attach Message Receiver \n");
                exit(0);
                }

        busyon();               /*  start busy at logic high      */

        if (log_flag)
                fprintf(log_file,"Initiating process \n");
        printf("%s\n",INTRO_STRING);
        dison();        /* push display button  */
        sleep(2);
        do
        {
                start = ticks();
                restart = 0;
                do
                {
                        if (beep())
                        {
                                print_message();
                                restart = 1;
                                start -= TWELVE_SEC;
                                break;
                        }
                }
                /* hold display button for 12 seconds    */
                while(! timeout(start,TWELVE_SEC));
        }
        while(restart);

        disoff();       /* release the display button   */
        if (log_flag)
        {
                fprintf(log_file,"Process Complete \n");
```

```c
                fclose(log_file);
        }

}

/*              pager beep              */
int beep(void)
{

/*      accesses the RI line via the Status Register
        which is activated when the pager beeps         */

        unsigned start;

        start = ticks();
        while ( ! timeout(start,FIVE_TICK))
        {
                if ((inportb(status_reg) & RING_IN) == 0 )
                        return(1);
        }
        return(0);
}

/*      busyon & busyoff toggle the DTR line via the
        Control Register to strobe in data from the pager               */

void busyoff(void)
{
        outportb(control_reg,inportb(control_reg) | DTR_HI);
}

void busyon(void)
{
        outportb(control_reg,inportb(control_reg) & DTR_LO);
}

/*      dison & disoff toggle the RTS line via the Control Register
        to simulate the pressing of the display button on the pager     */

void dison(void)
{
        outportb(control_reg,inportb(control_reg) | RTS_HI);
}

void disoff(void)
{
        outportb(control_reg,inportb(control_reg) & RTS_LO);
}

int link(void)
{

/*      accesses the CD line via the Status Register
        which is logic high when pager is connected     */

        if ((inportb(status_reg) & CD_HI) == 0)
                return(0);
        return(1);
}

void print_message(void)
{
        FILE *file;
        unsigned start;
        int x,y=0,z=0,chr,bit;
```

```c
busyoff();      /*      ready to accept pager data      */

/*              read until end code received              */
while (chr != 3)
{
        chr = 0;
        start = ticks();

        /*      wait for start bit      */

        do
        {
                bit = strobe();
                if (bit == 0)
                        break;
        }
        while (!timeout(start,FIVE_SEC));

        if (bit)
        {
                if (log_flag)
                        fprintf(log_file,"Transmission Error, recheck connection\n");
                disoff();
                exit(0);
        }

        /*              strobe out 8 bit data              */

        for (x=1; x<9; x++)
        {
                chr <<= 1;
                chr += bit = strobe_data();
        }

        /*              clear out stop bits              */
        for (x=1;x<3;x++)
        {
                strobe_data();
        }

        /*      extract start and end codes from message

                pager signon      02, 1B, 0D, 33
                pager signoff     03                       */

        if ((y > 3) && (chr != 3))
        {
                /* pager characters 96 and 97 are converted to
                   0xFA and 0xFB to display on pager        */

                if (chr == 0xfa)       /*      convert to CR      */
                        chr = '\n';
                if (chr == 0xfb)       /*      convert to TAB     */
                        chr = 0x09;

                pager_buffer[z] = chr;
                z ++;
        }
        y ++;
}

pager_buffer[z] = '\0';                /*      null terminate     */

busyon();      /*      finished receiving data      */
```

```c
        if (log_flag)
                fprintf(log_file,"%s\n",pager_buffer);

        if ((file = fopen(ATT_EMAIL_FILE, "at")) == NULL)
                fprintf(log_file,"Unable to open TFMOBOX.TMP\n");
        else
        {
                fprintf(file,"%s\n",pager_buffer);
                fprintf(file,"%s",DELIMITER);
                fclose(file);
        }

        start = ticks();
        while(!timeout(start,FIVE_SEC))
        {
        /*      wait for erase beep       */
                if (beep()) break;
        }
        sleep(1);       /*      wait one more second    */
}

int rxdata(void)
{

/*      accesses the DSR line via the Status Register
        which returns the bits value                   */

        if (inportb(status_reg) & DSR_HI)
                return(0);
        return(1);
}

int strobe(void)
{
        int bit;

        busyon();
        delay(1);
        busyoff();
        delay(4);
        bit = rxdata();
        return(bit);
}

int strobe_data(void)
{
        int bit;

        busyon();
        delay(2);
        bit = rxdata();
        busyoff();
        delay(1);
        return(bit);
}

unsigned ticks(void)
{
        /*      returns timer ticks (approx. 18.2/sec)
                using only lower registers              */

        union REGS in,out;

        in.x.ax = 0x0;
        int86(0x1a,&in,&out);
        return(out.x.dx);
```

```
}

int timeout(unsigned start, int delay)
{
        /*      used for timing events of up to approx. 1 hour.
                used in conjunction w/ticks()                   */

        unsigned current;

        current = ticks();
        if (start <= current && (start + delay) < current)
                return(1);
        if (start > current && (start - 65535 + delay) < current)
                return(1);
        return(0);
}
```

```c
            /* mark the end of the command line you built,so you can add ending
               delimiter */
            sys_command[i] = NULL;
            /* add the ending quote for the users message so shell wont
               interepert special characters */
            strcat(sys_command, "\'");
            /* execute command you built */
            system(sys_command);

            printf("sending message: %s\n", sys_command);

        }
        else {
            if(strlen(mesg) == 0 ) {
                return(0);
            }
            /* print error for invalid message length */
            printf("telemail error: invalid message length: %s\n", mesg);
            return(0);
        }

        return(i);
}

/****************************************************************************
 *
 *    function: getline(hold-buffer, input-file-pointer)
 *    arguments: pointer to buffer where line read will be heald,
 *               file pointer to input file
 *    description: reads 1 line of text from the input line and stores the
 *                 line read into the buffer passed.
 *    returns: -1 if EOF or number of characters read in
 *
 ****************************************************************************/
getline(buff, fp)
char *buff;
FILE *fp;
{
    int ch, cnt;

    /* keep on reading characetrs from file so long as end of file not
       reached or char is the end of line */
    for(cnt = 0; ((ch = fgetc(fp)) != EOF) && ch != '\n'; cnt++) {
        /* MOD BY OT 11/29/90 convert tab to space */
        /* convert tabs to single space */
        if(ch == 9) {
            ch = ' ';
        }
        /* MOD BY OT 11/29/90 dont allow control char */
        /* only load in ascii characters */
        if(isprint(ch) != 0) {
            buff[cnt] = ch;
        }
        else {
                /* turn control characters to spaces */
                buff[cnt] = ' ';
        }
    }
    /* mark the end of the buffer you built */
    buff[cnt] = '\0';
```

```
/*****************************************************************************
 *
 *    function: send_mesg(message-pointer)
 *    arguments: pointer to text message(capcode,text) to be sent
 *    description: takes passed message text makes sure the first 8 positions
 *                 are numeric(capcode). it builds and executes the network
 *                 send command(netsend.sh) to sedn the message passed.
 *    returns: 0 if not sent otherwise the number of characters sent out
 *
 *****************************************************************************/
int send_mesg(mesg)
char *mesg;
{
   char sys_command[700];
   int i;
   int ch;
   char *mesg_ptr;

   /* left justify the message passed to remove leading spaces */
   strljust(mesg, 512);
   /* trim off trailing blank spaces from the message */
   strtrim(mesg);

   /* make sure you have a capcode at least */
   if(strlen(mesg) > 8) {

      /* start to build the command to be executed to send message retreieved
         from the mail box */
      strcpy(sys_command, "netsend.sh ");

      /* loop while still more characters in the message */
      for(mesg_ptr = mesg, i = 11; *mesg_ptr != NULL; i++, mesg_ptr++) {

         /* make sure the first 8 positions of the message are numeric */
         if((i < 19) && (*mesg_ptr < '0' || *mesg_ptr > '9')) {
            printf("telemail error: invalid capcode: %s\n", mesg);
            return 0;
         }

         /* is the user didsnt seperate capcode & message then insert a
            space into the command */
         if(i == 19 && *mesg_ptr != ' ') {
            sys_command[19] = ' ';
            i = 20;
         }

         /* enclose the users message with ' so shell wont interpet
            special characters */
         if(i == 20) {
            sys_command[20] = '\'';
            i = 21;
         }

         /* put the character from the message onto to the
            command to be executed */
         sys_command[i] = *mesg_ptr;

      }
```

```c
        /* since your just starting clear the message area */
        memset(mesg, NULL, MAXMSGLEN);

        /* keep on geting lines from the file until you reach end of file */
        while(getline(buff, fp) != -1) {

            /* every mail message start with the word "From " */
            if(strncmp(buff, "From ", 5) == 0) {
                /* set flag telling you are currently going thru mail header
                    so you dont add it to the message */
                in_header = 1;
                /* call routine to the last message if any exists */
                send_mesg(mesg);
                continue;
            }

            /* a mail header end with the following string */
            if(strncmp(buff, "Content-Length:", 15) == 0) {
                /* turn off flag so you know you are no longer in mail
                    message header */
                in_header = 0;
                /* clear the old message since this is a new one */
                memset(mesg, NULL, MAXMSGLEN);
                continue;
            }

            /* if the line you are now reading in not part of the mail header
                add it to the message */
            if(in_header == 0) {
                strljust(buff, 512);
                strtrim(buff);
                /* make sure you dont add more than the message length */
                if( (strlen(buff) + strlen(mesg)) < MAXMSGLEN) {
                    strcat(mesg, " ");
                    strcat(mesg, buff);
                }
            }

        } /* end of read line while */

        /* send the last message in the file */
        send_mesg(mesg);

}
```

IN THE UNITED STATES PATENT ＆ TRADEMARK OFFICE

Thomas J. Campana et al

Serial No: 07/702,938   Exr: G. Oehling

Filed   :   May 20, 1991   A.U. 2608

For   :   System For Interconnecting
                   Electronic Mail Systems

Box DAC
Commissioner of Patents and Trademarks
Washington, D.C. 20231

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNAVOIDABLE UNDER 37 CFR 1.137(a)

1.   Applicant petitions for the revival of the above-identified application.

2.   Nature of abandonment

        In an office communication from the PTO dated _____ the undersigned has noted that the above-identified application is being forwarded to the Abandoned Files because applicant's response to the Official Action mailed _____ has not been received within the statutory period or any extension requested therefor.

        X .   The undersigned has reviewed his records and noted that the response to the Official Action mailed April 21, 1993 was not timely filed within the statutory period or any extension requested therefor.

3.   Response filed

        The proposed response to the Official Action mailed _____
        has been filed on _____
        is enclosed herewith.

4.   Verified showings from the relevant parties as to the causes of the unavoidable delays are filed herewith.

5.   It will be seen from the attached showings that the processing procedures have been carefully reviewed and that steps have been taken to avoid repetition of the events which took place in this case so that a similar error will not be made in the future.

6.   Terminal Disclaimer

        Abandonment took place on the following date July 21, 1993 and:

        X   Since this petition is within six months of that date no terminal disclaimer is required.
             A terminal disclaimer equivalent to the period of the application until the date of this petition is attached.

7.   Status of applicant
        This application is on behalf of

        X   small business entity - fee $55.00
             X verified statement already filed on May 20, 1991
             X verified statement attached
             other than small business entity - fee $110.00

8.   Fee payment
        X   Charge the petition fee of $55.00 to Account No. 01-2135 and for any additional fee required. A duplicate of this petition is attached.
             A check in the sum of $_____ is attached.
        X   Charge Account No. 01-2135 for any additional fee required.

Reg. No. 26,424   William H. Wright
Telephone No. (202) 296-3854

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May 20, 1991

Honorable Commissioner of
    Patents and Trademarks
Washington, D. C.   20231

Dear Sir:

Attached please find the application papers of
THOMAS J. CAMPANA, JR., MICHAEL P. PONSCHKE and GARY F.
THELEN, covering new and useful improvements in an SYSTEM FOR
INTERCONNECTING ELECTRONIC MAIL SYSTEMS BY RF COMMUNICATIONS
comprising:

> Specification, Twenty-Three (23) Claims and
>   Abstract of the Disclosure (70 pages)
>
> English Language Declaration and
>   Power of Attorney (2 pages)
>
> Twelve (12) Sheets of Informal Drawings
>   showing Figs. 1-12 and a copy
>
> Verified Statement Claiming Small Entity
>   Status -- Independent Inventor (2 pages)
>
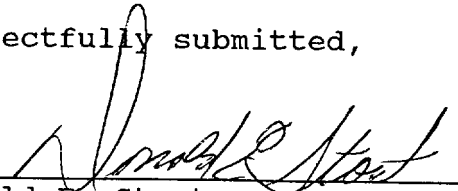> Appendix - 14 pages of control programs
>
> Information Statement
>
> U.S. Government Filing Fee of $345.00
>
> U.S. Government Assignment Recording Fee of $8.00

Please charge any shortages in the fees or credit
any overpayment thereof to the Deposit Account of Antonelli,
Terry, Stout & Kraus, Account No. 01-2135 (780.29767X00).

Respectfully submitted,

Donald E. Stout
Registration No. 26,422
ANTONELLI, TERRY, STOUT & KRAUS

Enclosures

DES:dlh

780.29767X00

MAIL ROOM
MAY 8 1995
PATENT & TRADEMARK OFF.

1. CORRESPONDENCE ADDRESS

26M270207

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WASHINGTON, D.C. 10006

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT		DATE MAILED
07/702,938	05/20/91	062	OEHLING, G	2608	02/07/95

First Named Applicant   CAMPANA,   THOMAS J.   JR.

TITLE OF INVENTION SYSTEM FOR INTERCONNECTING ELECTRONIC MAIL BY RF COMMUNICATIONS AND METHOD OF OPERATION THEREOF (AS AMENDED)

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
780.29767X00	379-058.X00	163	UTILITY	YES	$605.00	05/08/95

DO NOT USE THIS SPACE

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1300 North Seventeenth Street
Suite 1800
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ANTONELLI, TERRY, STOUT & KRAUS

NTP Incorporated
Annandale, VA.

X

2a. The following fees are enclosed:
☐ Issue Fee   ☐ Advance Order - # of Copies _____
2b. The following fees should be charged to:
DEPOSIT ACCOUNT NUMBER 01-2135
☐ Issue Fee   ☐ Advance Order - # of Copies _____
☐ Any Deficiencies in Enclosed Fees
The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee to the application identified above.
(Authorized Signature)
Reg.No. _____   5/8/95
NOTE: The Issue Fee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office.

TRANSMIT THIS FORM WITH PART B WHEN AUTHORIZING USE OF A DEPOSIT ACCOUNT

. 29767X00

KS

~orm should be used ~c transmitting the ISSUE FEE. Blocks 2 through 6 sh~ be completed where appropriate.
~pondence including the Issue Fee Receipt, the Patent, advance orders and notification of ma~ce fees will be mailed to addressee
entered in Block 1 unless you direct otherwise, by: (a) specifying a new correspondence address in Block 3 below; or (b) providing the PTO with a separate
"FEE ADDRESS" for maintenance fee notifications with the payment of Issue Fee or thereafter. See reverse for Certificate of Mailing.

1. CORRESPONDENCE ADDRESS	2. INVENTOR(S) ADDRESS CHANGE (Complete only if there is a change)
MAIL ROOM MAY 8 1995 PAT. & TRADEMARK OFF.	INVENTOR'S NAME
	Street Address
26M2/0207	City, State and ZIP Code
~NELLI, TERRY, STOUT & KRAUS	CO-INVENTOR'S NAME
1919 PENNSYLVANIA, N.W.; SUITE 600	Street Address
WASHINGTON, D.C. 10006	City, State and ZIP Code
	☐ Check if additional changes are on reverse side

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT		DATE MAILED
07/702,939	05/20/91	062	OEHLING, G	2608	02/07/95

First Named Applicant	CAMPANA,	THOMAS J.	JR.

TITLE OF
INVENTION SYSTEM FOR INTERCONNECTING ELECTRONIC MAIL BY RF COMMUNICATIONS AND
METHOD OF OPERATION THEREOF (AS AMENDED)

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
780.29767X00	379-058.000	I63	UTILITY	YES	$605.00	05/08/95

3. Correspondence address change (Complete only if there is a change)	4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered attorney or agent. If no name is listed, no name will be printed.	
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5. ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type)	
(1) NAME OF ASSIGNEE: NTP Incorporated	6a. The following fees are enclosed: ☒ Issue Fee ☐ Advance Order - # of Copies _____
(2) ADDRESS: (CITY & STATE OR COUNTRY) Annandale, VA.	6b. The following fees should be charged to: DEPOSIT ACCOUNT NUMBER 01-2135 (ENCLOSE PART C) ☐ Issue Fee ☐ Advance Order - # of Copies _____ ☒ Any Deficiencies in Enclosed Fees
A. ☐ This application is NOT assigned. ☒ Assignment previously submitted to the Patent and Trademark Office. ☐ Assignment is being submitted under separate cover. Assignments should be directed to Box ASSIGNMENTS. PLEASE NOTE: Unless an assignee is identified in Block 5, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.	The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee to the application identified above. (Authorized Signature) Reg.No. 26,422 (Date) Donald E. Stout 5/8/95 NOTE: The Issue Fee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office.

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PTOL-85B (REV.12-93)(0651-0033)